

Signal Conditioners: Isolated Non Isolated, 4 to 20 mA Transmitters

	Power Supply									Input				INT	Output				Output	Output	Output	Output	Output	LOCAL	
	Requirments					Loop	CMV	CMR	Warm	Accuracy	Range				Vref	Range	mA		Offset	Offset	Current	Current	Current	Normal	POWER
	Local Power					Voltage			up	& +25C	0V	0V	+1V			0	4	12	Current	Current	FS Error	FS Current	Mode		
MODEL	+Vcc	Icc	-Vee	Iee		Volts	db	Time			to	to	to			to	to	±		TC		TC	Protection		
NUMBER	Volts	mA	Volts	mA		RMS	min	minute	± % Max		+5V	+10V	+5V			20	20	8	uA	uA/C	+uA @ +25C	uA/C	V rms		
Isolated Signal Conditioners																									
4 to 20mA Transmitters																									
1B21	15	10	15	5	+15>30	1500	90	5	0.05	X	X	X	Y	X	X				100	0.3	120	1	N/A	\$55.64	
1B22	15	7.5	15	7.5		1500	90	5	0.05	X	X		N	X	X				60	0.3	140	1	240	\$74.95	
	Power Supply																								
	Requirments					CMV	CMR	NMR	Warm	Accuracy	Gain							TC					Model Designator		
	Local Power								up	@ +25C	Non	Sensor	Sensor	Max	Input	Input	Input					Temp		#	
MODEL	+Vcc	Icc	-Vee	Iee		Volts	db	db	Time	± % FSR	Lin'ity	Type	Range	Input	Offset	Offset					Range			Starting	
NUMBER	Volts	mA	Volts	mA		RMS	min	min	minute	min	± %		ohms	Volts								-40	-55	Pins	
RTD																						+85	+125		
1B41	15	12	15	3		1500	160	60	NS	2	0.035/025	Pt100	20>5000	+1>-5	2ohms	0.02ohms/C						A/B		38	
Thermocouple																									
1B51	15	12	15	4		1500	160	60	NS	1	0.05/04	Tc or mV	10mV>5V	na	.1mV	0.5uV/C						A/B		38	
	Power Supply										Input				INT	Output				Output	Output	Output	Output	LOCAL	
	Requirments					Loop	CMV	CMR	Warm	Accuracy	Range				Vref	Range	mA		Offset	Offset	Current	Current	Normal	POWER	
	Local Power					Voltage			up	& +25C	0V	0V	+1V			0	4	12	Current	Current	FS Error	FS Current	Mode		
MODEL	+Vcc	Icc	-Vee	Iee		Volts	db	db	Time		to	to	to			to	to	±		TC		TC	Protection		
NUMBER	Volts	mA	Volts	mA		Volts	RMS	min	minute	± % Max	+5V	+10V	+5V			20	20	8	uA	uA/C	+uA @ +25C	uA/C	V rms		
AD693						+12>36	12	80	NS	0.05	@ 30mV FS input			Y	X	X	X		80	1.5	NS	1	NA	+12>36	
AD693										0.07	@ 60mV FS input													@ .7mA	
AD694J/A						+4.5>36		NA		0.3		X		Y		X	X		20	1	6	1	NA	+4>36	
AD694B										0.15	or 0 to +2V					X	X		10	0.5	3	0.5	NA	@ 2mA	
RTD SIGNAL CONDITIONERS																									
					<<<<Instrumentation Input Amplifier Specs>>>>>>>>>>>>												Output						Price		
			Supply			Input Output								Mismatch	Amplifier									1K	
			Range	Iq	Isdown	Eos	Eos	Ib	CMRR	PSRR	Vref	Irt d 1,2	Irt d1-Ir	Specs											
			Volts	uA	uA	uV	uV	nA	dB	dB	Volts	mA	uA	Eos	Ib	#									
ADT	70	G	+5V	3000	10	500	100				2.5	1	0.5	500		20								\$4.85	
ADT	70	F				200	500																	\$7.43	
ADT	70	G	+5V	3000	10	500	100				Ext	1	0.5	500		20								\$4.85	
ADT	70	F				200	500																	\$7.88	